

DEVICE FOR PROCESSING OF POLYMERIC MATERIAL**Publication number:** RU2167056**Publication date:** 2001-05-20**Inventor:** BALYBERDIN V N; NIKOL SKIJ V G; PEREPELOV A L**Applicant:** NIKOL SKIJ VADIM GENNADIEVICH**Classification:**

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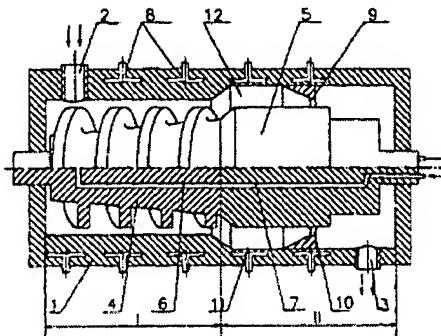
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Application number: RU20000122142 20000823**Priority number(s):** RU20000122142 20000823**Also published as:**

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working of polymeric materials, applicable, for example, for processing of waste of high-strength polymeric articles, for separation of the cord from rubber at salvaging of automobile or aeroplane tyres. **SUBSTANCE:** device has a body with charging and discharge openings, accommodating in the zone of sealing a sealing conveyer with helical flutes on the surface, and the processing zone a rotor is aligned with the sealing conveyer, the rotor is made as a body of revolution and installation for rotation. An annular recess is made on the inner surface of the body in the processing zone between the inner surface of the body and the lateral surface of the rotor. An annular projection is made on the lateral surface of the rotor on the side of the discharge opening or on the inner surface of the body in processing zone with formation of an annular gap relative to the inner surface of the body or to the lateral surface of the rotor respectively. The minimum width of the annular gap makes up not more than 50% of the average width of the annular chamber. The relationship between the length of the sealing conveyer, rotor length and extension of the annular gap makes up 1: (0.2-0.8): (0.01-0.25). The device is provided with means for cooling the rotor and/or body in the processing zone, as well as with means for cooling the sealing conveyer and/or body in the sealing zone. **EFFECT:** enhanced quality of processing of polymeric material due to provision of flaking of polymer from the reinforcing cord without accompanying processes; without destruction of the cord and without formation of highly dispersed polymeric powder particles with a brittle structure, reduced abrasive wear of installation. 9 cl, 3 dwg



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